BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 1600000.00

Name of Work: Detailed Estimate for the work of Construction of RCC drain at chowdeswhari layout 6th cross roads in ward No- 02 of yelahanka Sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRB 2-2.1 : earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, **in ordinary soil** not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No. 5/ Item No. 2.3/ PWD SR 2015-16	cum							
	for RCC drain		2	15.00	1.00	0.90	27.00		
			2	30.00	1.00	0.90	54.00		
			1	85.00	1.00	0.90	76.50		
	cc road		1	70.00	3.00	0.20	42.00		
	culvert		1	6.00	1.50	1.00	9.00		
							208.50	192.24	40082.00
	Basic Rate	178.00							
	Area Weightage @ 8%	14.24							
	Total	192.24							
2	KSRB 100-1 Loading and unloading ofstone aggregates / sand/ kanker/ Moorum /soil KSRRB M100-1 Placing tipper at loading with front end loader dumpting turning for return trip excluding time for haulged and return trip complete as per specification item No 17.1 page 130 and KSRB M.100.4.1 costof haulage excluding loading and unloading MORTH to a distance of 4.00 K.M (Item No 17.4 Page 130 (SR 2015-16)	cum							
			Vide Item No. 1				208.50	85.60	17848.00
	Basic Rate for loading and unloading	68.00							
	Basic Rate for Haulage upto 4.00 k.m =1.28 X 2.20 X 4	11.26							
		79.26							
	Area Weightage @ 8%	6.34							
	Total	85.60							

Sl	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
3	KSRRB M300-53: construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification Page No. 305.4.3, No. 144 Item No. 19.60/ PWD SR 2014-15	cum							
			1	70.00	3.00	0.25	52.50		
							52.50	**311.04**	**16330.00**
	Basic Rate	288.00							
	Area Weightage @ 8%	23.04							
	Total	**311.04**							
4	KSRB-4-1.2 : Providing and laying in position plain cement concrete of mix **1:3:6 withOPC** cement at 220kgs. with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @0.465cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2, No. 12/ Item No. 4.2/ PWD SR 2015-16	Cum							
	for RCC drain		2	15.00	0.90	0.15	4.05		
			2	30.00	0.90	0.15	8.10		
			1	85.00	0.90	0.15	11.48		
	culvert		1	6.00	1.20	0.15	1.08		
	for cc road		1	70.00	3.00	0.15	31.50		
							56.21	**5236.92**	**294341.00**
	Basic Rate	4849.00							
	Area Weightage @ 8%	387.92							
	Total	**5236.92**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
5	KSRB 4.2.2 Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, **lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc**, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification, No. KBS 4.1.4.6, No. KBS 4.1.4.6, No. 13/ Item No. 4.11/ PWD SR 2015-16	Cum							
	for RCC drain bed		2	15.00	0.90	0.15	4.05		
	side walls	2x2	4	15.00	0.15	0.65	5.85		
			2	30.00	0.90	0.15	8.10		
		2x2	4	30.00	0.15	0.70	12.60		
			1	85.00	0.90	0.15	11.48		
		1x2	2	85.00	0.15	0.70	17.85		
	for culvert		1	6.00	1.20	0.30	2.16		
	side walls	1x2	2	6.00	0.30	0.70	2.52		
	deck slab		1	6.00	1.20	0.30	2.16		
							66.77	6198.12	413817.00
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	6198.12							
6	KSRB 4.9.2 providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 Page No. 17/ Item No. 4.46/ PWD SR 2014-15	Quintal					35.95		
	for RCC drain 65 kg/cum		0.660	59.93			38.95		
	for RCC drain 90 kg/cum		0.900	6.84			6.16	6980.58	273952 = 00
	current	6463.50		66.77			45.11	6528.70	294492.00
	Basic Rate	6528.70					42.11		

Aw 8% 517.08
6980.58

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters, bittresses buttresses plinth and string course including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15/ Item No. 4.31/ PWD SR 2015-16	sqm							
	for rcc drain	2x4	8	15.00	0.65		78.00		
		2x4	8	30.00	0.70		168.00		
		1x4	4	85.00	0.70		238.00		
	culvert	1x4	4	6.00	0.75		18.00		
	deck slab		1	6.00	0.60		3.60		
			1	6.00	0.30		1.80		
			1	1.20	0.30		0.36		
							507.76	306.72	155740.00
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total	306.72							
8	RCC Precast covering slab for drain (10cm thick)	sqm							
			2	15.00	0.75		22.50		
			2	30.00	0.75		45.00		
			1	85.00	0.75		63.75		
							131.25	1498.00	196613.00
	Rate Approved by BBMP	1498.00	Enclose copy approved						
9	KSRRB M600-6 cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2N20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing.), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation, including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and grade as per drawing complete as per specification M30(at 360kg per cum coarse aggregate @ 0.69cum and fine aggregare @ 0.46cum). , No. 174/ Item No. 22.6.1 SR 2015-16 Specification is to be taken from item No. 22.6.1 of PWD SR 2015-16 page No. 174	Cum							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	for cc road		1	70.00	3.00	0.10	21.00		
							21.00	5957.28	125103.00
	Basic Rate	5516.00							
	Area Weightage @ 8%	441.28							
	Total	5957.28							
10	Vaccum De- writing with vaccum pump and suction mat and compaction with skin flater clubbed with floatiog disc including cost of generator, HOM of machinery Sereed Vibratory Power Floaterblade and diisc etc. with all lead and lift. Page No 174 Item No 22.7 SR 2015-16	Sqm							
			1	70.00	3.00		210.00		
							210.00	97.20	20412.00
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total	97.20							
11	Providing groove cutting for width of 5mm to 100m depth 80mm-100 including cost of cutting machine, generatoe & HOM of machinery, including cost of blade, coolant etc., including cleaning of groove & providing sand and hot birumen fillars, and filler metal etc., including cost of conveyance of all materials,. Labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. do- for concrete pavement Item no 22.8.1 Page No 175 SR 2015-16	Rmt							
	for cc road		24	3.00			72.00		
							72.00	124.20	8942.00
	Basic Rate	115.00							
	Area Weightage @ 8%	9.20							
	Total	124.20							15831
12	1% of Quality control charges								16000.00
13	Miscellaneous charges							989	280.00
								Total	1600000.00

(Rupees sixteen lakhs Only)

TECHNICALLY SANCTIONED FOR Rs. .....
Rupees .....
Under .....
Executive Engineer

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2015-16
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Executive Engineer
Yelahanka Division
Bangalore-64

Administrative Approval
Accorded For 1600000/-
Head of A/C.....P-1771
CER NO :...105..... Dt:..01.01.2016

TA CE (YNK)